	25X1	
.ecret		

2	5	X	1

VACUUM TUBE GLASS USED IN THE USSR - 1945-50

- : 1		Chemical Composition									
Type of Glass	Maker	510 ₂	B203	A1 ₂ 0 ₃	CaO	MgO	Bac	Pb0	ZnO	Na ₂ 0	K ₂ O
Lead silicate IB		71.0	-	-	6.3	-	-	5•3	-	10.7	16.7
" " Hr 16		70.0	-	-	3.8	-	-	10.4	-	11.0	4.8
# " VIB		660		1.0	2.5	-	-	14-5	- ;	9.0	7.0
* * C ~ 1	Corning USA	62.0	-	2.0	-	-	-	20.5	-	7•7	6.0
3C-4 (Nr 12)	Nii 160	55.0	-	1.7	0.3	-	-	30.0	-	3.8	9.2
Dolomitglas Nr82		74.0	-		5.8	3.6	-	-	-	16.6	-
# Nr71		73.3	-	0.4	5.4	3.9	-	-	-	17.0	-
# G~8	Corning USA	70.8		1.6	5.5	3.8	-	-	~	16.2	0.7
Baritgles 6,4 1		69.4	. -	-	5-5	3.5	540	-	-	12.5	4.1
" Nr 112		71.5	1,04	-	: 405	1.5	7.0		-	10.0	5•5
" Nr 23		68.4	2.7	3.9	8.5	-	-	·	-	9.4	7.1
** Nr 23	N11 160	68.39	3.66	3.89	8.5	-	-	-	-	9.4	7.14
Molybdaenglas Nr 46	, test f	68.0	17.5	3.0	-	-	-	-	5.0	6.5	-
" Nr 46	N11 160	66.75	20.25	3.5	-	-	·-	-	-	3.9	5•35
# G-705 A3	Corning USA	67.0	22.0	2.0	-	-	-	-	-		5-5
" 3C-5		68.0	20.0	3.0	-	_	-	-	-	4.0	5.0
* N4 35		63.0	24.9	1.5	-	_		-	-	9.1	1.5
Nonex	Corning USA	73.0	16.5	-	-	-	-	6.0	-		4 - 5
Pyrex	Corning USA	80.8	12.0	2.2	0.3	_	~	_	_	4.1	0.1

ENCLOSURE (A)

SECRET

25X1

Approved For Release 2005/06/01 : CIA-RDP80-00809A000500	76005347×1
25X1	20/(1

SECRET			

VACUUM TUBE GIASS USED IN THE USSR - 1945-50

		Physical Properties				
Type of Glass	Purpose	Temp. Strain Point 7 = 25.10 ¹³	Annealing Point $\eta = 10^9$	of Expansion		
IB	Rx and Tx valves		510-530	87-90	25-100°C	
Wr 16	Tubes, rods, lamp pinches	460	490-510	67-90	25-100°C	
IV B	Tubes, pinches/bases for Ex valves	450	480-500	87-90	25 - 100°C	
G.1		425		92	25-325°C	
3.C-4	, п , п	425	475-490	85-89	0-310°C	
Nr 82	Lamp and Ex valve envelopes	500	520-550	88-92	25 - 100°C	
72 71	/ · · · · · · · · · · · · · · · · · · ·	500	510-530	87-90	25-100°C	
6A ¹	Class tube for but- ton bases, lamps and small valves		510-540	86-90	25 - 100°C	
Nr 112	n n		510-550	87-90	25-100°C	
A1 52	Envelopes and tubes for Tx, X-ray and other larger					
40		530	570-590	84-87	25-100°C	
Nr 46	n n	550	580-600	46-48	25-100°C	
3-C - 5	п	515	560-570	48-50	25-100°C	
N= 35	n n		560-580	52~56	25-100°C	
702 P	п	520	580	36	25 - 325°C	
Pyrex	Kinoscopes	560	620	33	25-325°C	

ENCLOSURE (B)

SECRET

25X1